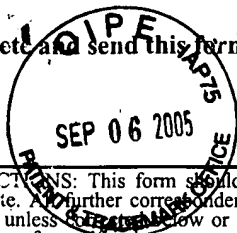


## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISS FEE**  
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed when appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless otherwise directed in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

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20457

7590

06/06/2005

ANTONELLI, TERRY, STOUT & KRAUS, LLP  
 1300 NORTH SEVENTEENTH STREET  
 SUITE 1800  
 ARLINGTON, VA 22209-3873

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|                    |                    |
|--------------------|--------------------|
| Richard Kline      | (Depositor's name) |
| <i>[Signature]</i> | (Signature)        |
| 9/1/05             | (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/929,464      | 08/14/2001  | Stuart T. Linksy     | 22-0146             | 9061             |

TITLE OF INVENTION: EFFICIENT IMPLEMENTATION OF A DECISION DIRECTED PHASE LOCKED LOOP (DD-PLL) FOR USE WITH SHORT BLOCK CO IN DIGITAL COMMUNICATION SYSTEMS

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE  | DATE DUE   |
|----------------|--------------|-----------|-----------------|---|------------|
| nonprovisional | NO           | \$1400    | \$300           | \$1700  | 09/06/2005 |
| EXAMINER       |              | ART UNIT  | CLASS-SUBCLASS  |   |            |
| LU, JIA        |              | 2634      | 375-376000      | 09/08/2005 CNGUYEN3 00000087 09929464<br>01 FC:1501<br>02 FC:1504 |            |

1400.00 OP  
 300.00 OP

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Tarolli, Sundheim, Covell  
 & Tummino L.L.P.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Northrop Grumman Corporation

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Los Angeles, California

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

4b. Payment of Fee(s):

- ☒ Issue Fee
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- ☒ A check in the amount of the fee(s) is enclosed.
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- ☒ The Director is hereby authorized to charge the required fee(s), or credit any overpayment Deposit Account Number 20-0090 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

*[Signature]*

Date

9/1/05

Typed or printed name

Christopher P. Harris

Registration No.

43,660

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 14 Alexandria, Virginia 22313-1450.

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